APPENDIX A: DNA SEQUENCES

>RXA00315
TATGATTTCGGCGGTCCAGTCGGCGGTCTGCTCTTCGGTCTGGTCTACTCACCAATCGTC
ATCACTGGTCTGCACCAGTCCTTCCCGCCAATTGAGCTGGAGCTGTTTAACCAGGGTGGA
TCCTTCATCTTCGCAACGGCATCTATGGCTAATATCGCCCAGGGTGCGGCATGTTTGGCA
GTGTTCTTCCTGGCGAAGAGTGAAAAGCTCAAGGGCCTTGCAGGTGCTTCAGGTGTCTCC
GCTGTTCTTGGTATTACGGAGCCTGCGATCTTCGGTGTGAACCTTCGCCTGCGCTGGCCG
TTCTTCATCGGTATCGGTACCGCAGCTATCGGTGGCGCTTTGATTGCACTCTTTAATATC
AAGGCAGTTGCGTTGGGCGCTGCAGGTTTCTTGGGTGTTGTTTCTATTGATGCTCCAGAT
ATGGTCATGTTCTTGGTGTGTGCAGTTGTTACCTTCTTCATCGCATTCGGCGCAGCGATT
GCTTATGGCCTTTACTTGGTTCGCCGCAACGGCAGCATTGATCCAGATGCAACCGCTGCT
CCAGTGCCTGCAGGAACGACCAAAGCCGAAGCAGAAGCACCCGCAGAATTTTCAAACGAT
TCCACCATCATCCAGGCACCTTTGACCGGTGAAGCTATTGCACTGAGCAGCGTCAGCGAT
GCCATGTTTGCCAGCGGAAAGCTTGGCTCGGGCGTTGCCATCGTCCCAACCAAGGGGCAG
TTAGTTTCTCCGGTGAGTGGAAAGATTGTGGTGGCATTCCCATCTGGCCATGCTTTCGCA
GTTCGCACCAAGGCTGAGGATGGTTCCAATGTGGATATCTTGATGCACATTGGTTTCGAC
ACAGTAAACCTCAACGGCACGCACTTTAACCCGCTGAAGAAGCAGGGCGATGAAGTCAAA
GCAGGGGAGCTGCTGTGTGAATTCGATATTGATGCCATTAAGGCTGCAGGTTATGAGGTA
ACCACGCCGATTGTTGTTTCGAATTACAAGAAAACCGGACCTGTAAACACTTACGGTTTG
GGCGAAATTGAAGCGGGAGCCAACCTGCTCAACGTCGCAAAGAAAGAAGCGGTGCCAGCA
ACACCA

>RXA00315-downstream
TAAGTTGAAACCTTGAGTGTTCG

>RXA00951
ATCCAAGCAATCTTAGAGAAGGCAGCAGCGCCGGCGAAGCAGAAGGCTCCTGCTGTGGCT
CCTGCTGTAACACCCACTGACGCTCCTGCAGCCTCAGTCCAATCCAAAACCCACGACAAG
ATCCTCACCGTCTGTGGCAACGGCTTGGGTACCTCCCTCTTCCTCAAAAACACCCTTGAG
CAAGTTTTCGACACCTGGGGTTGGGGTCCATACATGACGGTGGAGGCAACCGACACTATC
TCCGCCAAGGGCAAAGCCAAGGAAGCTGATCTCATCATGACCTCTGGTGAAATCGCCCGC
ACGTTGGGTGATGTTGGAATCCCGGTTCACGTGATCAATGACTTCACGAGCACCGATGAA
ATCGATGCTGCGCTTCGTGAACGCTACGACATC

>RXA00951-downstream
TAACTACTTTAAAAGGACGAAAA

>RXA01244-upstream
AGATGTCGATTTCTCGAGGAAGAAGTTAACGCCGAAGAAAACCGTGAATCAGAGCAGGAG
CGCTTCGACGCCGCTGCAGCCACAGTCTCTTCTTCGT

>RXA01244
TTGCTTGAGCGCTCCGAAGCTGCTGAAGGACCAGCAGCTGAGGTGCTTAAAGCTACTGCT
GGCATGGTCAATGACCGTGGCTGGCGTAAGGCTGTCATCAAGGGTGTCAAGGGTGGTCAC
CCTGCGGAATACGCCGTGGTTGCAGCAACAACCAAGTTCATCTCCATGTTCGAAGCCGCA
GGCGGCCTGATCGCGGAGCGCACCACAGACTTGCGCGACATCCGCGACCGCGTCATCGCA
GAACTTCGTGGCGATGAAGAGCCAGGTCTGCCAGCTGTTTCCGGACAGGTCATTCTCTTT
GCAGATGACCTCTCCCCAGCAGACACCGCGGCACTAGACACAGATCTCTTTGTGGGACTT
GTCACTGAGCTGGGTGGCCCAACGAGCCACACCGCGATCATCGCACGCCAGCTCAACGTG
CCTTGCATCGTCGCATCCGGCGCCGGCATCAAGGACATCAAGTCCGGCGAAAAGGTGCTT
ATCGACGGCAGCCTCGGCACCATTGACCGCAACGCGGACGAAGCTGAAGCAACCAAGCTC
GTCTCCGAGTCCCTCGAGCGCGCTGCTCGCATCGCCGAGTGGAAGGGTCCTGCACAAACC
AAGGACGGCTACCGCGTTCAGCTGTTGGCCAACGTCCAAGACGGCAACTCTGCACAGCAG
GCTGCACAGACCGAAGCAGAAGGCATCGGCCTGTTCCGCACCGAACTGTGCTTCCTTTCC
GCCACCGAAGAGCCAAGCGTTGATGAGCAGGCTGCGGTCTACTCAAAGGTGCTTGAAGCA
TTCCCAGAGTCCAAGGTCGTTGTCCGCTCCCTCGACGCAGGTTCTGACAAGCCAGTTCCA
TTCGCATCGATGGCTGATGAGATGAACCCAGCACTGGGTGTTCGTGGCCTGCGTATCGCA
CGTGGACAGGTTGATCTGCTGACTCGCCAGCTCGACGCAATTGCGAAGGCCAGCGAAGAA
CTCGGCCGTGGCGACGACGCCCCAACCTGGGTTATGGCTCCAATGGTGGCTACCGCTTAT

GAAGCAAAGTGGTTTGCTGACATGTGCCGTGAGCGTGGCCTAATCGCCGGCGCCATGATC
GAAGTTCCAGCAGCATCCCTGATGGCAGACAAGATCATGCCTCACCTGGACTTTGTTTCC
ATCGGTACCAACGACCTGACCCAGTACACCATGGCAGCGGACCGCATGTCTCCTGAGCTT
GCCTACCTGACCGATCCTTGGCAGCCAGCAGTCCTGCGCCTGATCAAGCACACCTGTGAC
GAAGGTGCTCGCTTTAACACCCCGGTCGGTGTTTGTGGTGAAGCAGCAGCAGACCCACTG
TTGGCAACTGTCCTCACCGGTCTTGGCGTGAACTCCCTGTCCGCAGCATCCACTGCTCTC
GCAGCAGTCGGTGCAAAGCTGTCAGAGGTCACCCTGGAAACCTGTAAGAAGGCAGCAGAA
GCAGCACTTGACGCTGAAGGTGCAACTGAAGCACGCGATGCTGTACGCGCAGTGATCGAC
GCAGCAGTC

>RXA01244-downstream
TAAACCACTGTTGAGCTAAAAAG

>RXA01299
ATGGAAATCATGGCCGCGATCATGGCAGCTGGCATGGTCCCACCAATCGCGTTGTCCATT
GCTACCCTGCTGCGCAAGAAGCTGTTCACCCCAGCAGAGCAAGAAAACGGCAAGTCTTCC
TGGCTGCTTGGCCTGGCATTCGTCTCCGAAGGTGCCATCCCATTCGCCGCAGCTGACCCA
TTCCGTGTGATCCCAGCAATGATGGCTGGCGGTGCAACCACTGGTGCAATCTCCATGGCA
CTGGGCGTCGGCTCTCGGGCTCCACACGGCGGTATCTTCGTGGTCTGGGCAATCGAACCA
TGGTGGGGCTGGCTCATCGCACTTGCAGCAGGCACCATCGTGTCCACCATCGTTGTCATC
GCACTGAAGCAGTTCTGGCCCAAACAAGGCCGTCGCTGCAGAAGTCGCGAAGCAAGAAGCA
CAACAAGCAGCTGTAAACGCA

>RXA01299-downstream
TAATCGGACCTTGACCCGATGTC

>RXA01300-upstream
GATCGACATTAAATCCCCTCCCTTGGGGGGTTTAACTAACAAATCGCTGCGCCCTAATCC
GTTCGGATTAACGGCGTAGCAACACGAAAGGACACTTTCC

>RXA01300
ATGGCTTCCAAGACTGTAACCGTCGGTTCCTCCGTTGGCCTGCACGCACGTCCAGCATCC
ATCATCGCTGAAGCGGCTGCTGAGTACGACGACGAAATCTTGCTGACCCTGGTTGGCTCC
GATGATGACGAAGAGACCGACGCGTCCTCTTCCCTCATGATCATGGCGCTGGGCGCAGAG
CACGGCAACGAAGTTACCGTCACCTCCGACAACGCTGAAGCTGTTGAGAAGATCGCTGCG
CTTATCGCACAGGACCTTGACGCTGAG

>RXA01300-downstream
TAAACAACGCTCTGCTTGTTAAA

>RXA01503-upstream
GTATCCTCAAAGGCCTTCTAGCTGTTGCAGCTGCAGCGCACTCGGTGGATACGACATCCA
CGACCTATCAAATTCTTTATGCTGCAGGCGATGCCTTTTC

>RXA01503
ATGTTCTTGGCAGTCATTTTGGCGATTACTGCGGCTCGTAAATTCGGTGCCAATGTCTTT
ACATCAGTCGCACTCGCTGGTGCATTGCTGCACACACAGCTTCAGGCAGTAACCGTGTTG
GTTGACGGTGAACTCCAGTCGATGACTCTGGTGGCTTTCCAAAAGGCTGGTAATGACGTC
ACCTTCCTGGGCATTCCAGTGGTGCTGCAGTTGGCGTTGCATGTAGCGAGTTTGATGAAG
TTGTCGCGA

>RXA01503-downstream
TAAGAGGAGGGGCGTGTCGGTCT

>RXA01883-upstream
CGACTGCGGCGTCTCTTCCTGGCACTACCATTCCTCGTCCTGACCAACTCGCCACAGCTG
GTGCAACGGTCACCCAAGTCAAAGGATTGAAAGAATCAGC

>RXA01883
ATGAATAGCGTAAATAATTCCTCGCTTGTCCGGCTGGATGTCGATTTCGGCGACTCCACC

ACGGATGTCATCAACAACCTTGCCACTGTTATTTTCGACGCTGGCCGAGCTTCCTCCGCC
GACGCCCTTGCCAAAGACGCGCTGGATCGTGAAGCAAAGTCCGGCACCGGCGTTCCTGGT
CAAGTTGCTATCCCCCACTGCCGTTCCGAAGCCGTATCTGTCCCTACCTTGGGCTTTGCT
CGCCTGAGCAAGGGTGTGGACTTCAGCGGACCTGATGGCGATGCCAACTTGGTGTTCCTC
ATTGCAGCACCTGCTGGCGGCGGCAAAGAGCACCTGAAGATCCTGTCCAAGCTTGCTCGC
TCCTTGGTGAAGAAGGATTTCATCAAGGCTCTGCAGGAAGCCACCACCGAGCAGGAAATC
GTCGACGTTGTCGATGCCGTGCTCAACCCAGCACCAAAAAACCACCGAGCCAGCTGCAGC

>RXA01889-upstream
ACCGAGCCAGCTGCAGCTCCGGCTGCGGCGGCCGGTTGTTAAGAGTGGGGCGGCGTCGAC
AAGCGTTACTCGTATC

>RXA01889
GTGGCAATCACCGCATGCCCAACCGGTATCGCACACACCTACATGGCTGCGGATTCCCTG
ACGCAAAACGCGGAAGGCCGCGATGATGTGGAACTCGTTGTGGAGACTCAGGGCTCTTCC
GCTGTCACCCCAGTCGATCCGAAGATCATCGAAGCTGCCGACGCCGTCATCTTCGCCACC
GACGTGGGAGTTAAAGACCGCGAGCGTTTCGCTGGCAAGCCAGTCATTGAATCCGGCGTC
AAGCGCGCGATCAATGAGCCAGCCAAGATGATCGACGAGGCCATCGCAGCCTCCAAGAAC
CCAAACGCCCGCAAGGTTTCCGGTTCCGGTGTCGCGGCATCTGCTGAAACCACCGGCGAG
AAGCTCGGCTGGGGCAAGCGCATCCAGCAGGCAGTCATGACCGGCGTGTCCTACATGGTT
CCATTCGTAGCTGCCGGCGGCCTCCTGTTGGCTCTCGGCTTCGCATTCGGTGGATACGAC
ATGGCGAACGGCTGGCAAGCAATCGCCACCCAGTTCTCTCTGACCAACCTGCCAGGCAAC
ACCGTCGATGTTGAC

>RXA01943
CCTGACCCAATCTTTGCAGCAGGCAAGCTTGGACCAGGCATTGCAATCCAACCAACTGGA
AACACCGTTGTTGCTCCAGCAGACGCTACTGTCATCCTTGTCCAGAAATCTGGACACGCA
GTGGCATTGCGCGCTTAGATAGCGGAGTTGAAATCCTTGTCCACGTTGGATTGGACACCGTG
CAATTGGGCGGCGAAGGCTTCACCGTTCACGTTGAGCGCAGGCAGCAAGTCAAGGCGGGG
GATCCACTGATCACTTTTGACGCTGACTTCATTCGATCCAAGGATCTACCTTTGATCACC
CCAGTTGTGGTGTCTAACGCCGCGAAATTCGGTGAAATTGAAGGTATTCCTGCAGATCAG
GCAAATTCTTCCACGACTGTGATCAAGGTCAACGGCAAGAACGAG

>RXA01943-downstream
TAACCTGGGATCCATGTTGCGCA

>RXA02191-upstream
CCGATTCTTTTTCGGCCCAATTCGTAACGGCGATCCTCTTAAGTGGACAAGAAAGTCTCT
TGCCCGCGGGAGACAGACCCTACGTTTAGAAAGGTTTGAC

>RXA02191
ATGGCGTCCAAACTGACGACGACATCGCAACATATTCTGGAAAACCTTGGTGGACCAGAC
AATATTACTTCGATGACTCACTGTGCGACTCGCCTTCGCTTCCAAGTGAAGGATCAATCC
ATTGTTGATCAACAAGAAATTGACTCCGACCCATCAGTTCTTGGCGTAGTACCCCAAGGA
TCCACCGGTATGCAGGTGGTGATGGGTGGATCTGTTGCAAACTATTACCAAGAAATCCTC
AAACTTGATGGAATGAAGCACTTCGCCGACGGTGAAGCTACAGAGAGTTCATCCAAGAAG
GAATACGGCGGAGTCCGTGGCAAGTACTCGTGGATTGACTACGCCTTCGAGTTCTTGTCT
GATACTTTCCGACCAATCCTGTGGGCCCTGCTTGGTGCCTCACTGATTATTACCTTGTTG
GTTCTTGCGGATACTTTCGGTTTGCAAGACTTCCGCGCTCCAATGGATGAGCAGCCTGAT
ACTTATGTATTCCTGCACTCCATGTGGCGCTCGGTCTTCTACTTCCTGCCAATTATGGTT
GGTGCCACCGCAGCTCGAAAGCTCGGCGCAAACGAGTGGATTGGTGCAGCTATTCCAGCC
GCACTTCTTACTCCAGAATTCTTGGCACTGGGTTCTGCCGGCGATACCGTCACAGTCTTT
GGCCTGCCAATGGTTCTGAATGACTACTCCGGACAGGTATTCCCACCGCTGATTGCAGCA
ATTGGTCTGTACTGGGTGGAAAAGGGACTGAAGAAGATCATCCCTGAAGCAGTCCAAATG
GTGTTCGTCCCATTCTTCTCCCTGCTGATTATGATCCCAGCGACCGCATTCCTGCTTGGA
CCTTTCGGCATCGGTGTTGGTAACGGAATTTCCAACCTGCTTGAAGCGATTAACAACTTC
AGCCCATTTATTCTTTCCATCGTTATCCCATTGCTCTACCCATTCTTGGTTCCACTTGGA
TTGCACTGGCCACTAAACGCCATCATGATCCAGAACATCAACACCCTGGGTTACGACTTC
ATTCAGGGACCAATGGGTGCCTGGAACTTCGCCTGCTTCGGCCTGGTCACCGGCGTGTTC
TTGCTCTCCATTAAGGAACGAAACAAGGCCATGCGTCAGGTTTCCCTGGGTGGCATGTTG

GCTGGTTTGCTCGGCGGCATTTCCGAGCCTTCCCTCTACGGTGTTCTGCTCCGATTCAAG
AAGACCTACTTCCGCCTCCTGCCGGGTTGTTTGGCAGCA

>RXN01244-upstream
GATATGTGTTTGTTTGTCAATATCCAAATGTTTGAATAGTTGCACAACTGTTGGTTTTGT
GGTGATCTTGAGGAAATTAACTCAATGATTGTGAGGATGG

>RXN01244
GTGGCTACTGTGGCTGATGTGAATCAAGACACTGTACTGAAGGGCACCGGCGTTGTCGGT
GGAGTCCGTTATGCAAGCGCGGTGTGGATTACCCCACGCCCCGAACTACCCCAAGCAGGC
GAAGTCGTCGCCGAAGAAAACCGTGAAGCAGAGCAGGAGCGTTTCGACGCCGCTGCAGCC
ACAGTCTCTTCTCGTTTGCTTGAGCGCTCCGAAGCTGCTGAAGGACCAGCAGCTGAGGTG
CTTAAAGCTACTGCTGGCATGGTCAATGACCGTGGCTGGCGTAAGGCTGTCATCAAGGGT
GTCAAGGGTGGTCACCCTGCGGAATACGCCGTGGTTGCAGCAACAACCAAGTTCATCTCC
ATGTTCGAAGCCGCAGGCGGCCTGATCGCGGAGCGCACCACAGACTTGCGCGACATCCGC
GACCGCGTCATCGCAGAACTTCGTGGCGATGAAGAGCCAGGTCTGCCAGCTGTTTCCGGA
CAGGTCATTCTCTTTGCAGATGACCTCTCCCCAGCAGACACCGCGGCACTAGACACAGAT
CTCTTTGTGGGACTTGTCACTGAGCTGGGTGGCCCAACGAGCCACACCGCGATCATCGCA
CGCCAGCTCAACGTGCCTTGCATCGTCGCATCCGGCGCCGGCATCAAGGACATCAAGTCC
GGCGAAAAGGTGCTTATCGACGGCAGCCTCGGCACCATTGACCGCAACGCGGACGAAGCT
GAAGCAACCAAGCTCGTCTCCGAGTCCCTCGAGCGCGCTGCTCGCATCGCCGAGTGGAAG
GGTCCTGCACAAACCAAGGACGGCTACCGCGTTCAGCTGTTGGCCAACGTCCAAGACGGC
AACTCTGCACAGCAGGCTGCACAGACCGAAGCAGAAGGCATCGGCCTGTTCCGCACCGAA
CTGTGCTTCCTTTCCGCCACCGAAGAGCCAAGCGTTGATGAGCAGGCTGCGGTCTACTCA
AAGGTGCTTGAAGCATTCCCAGAGTCCAAGGTCGTTGTCCGCTCCCTCGACGCAGGTTCT
GACAAGCCAGTTCCATTCGCATCGATGGCTGATGAGATGAACCCAGCACTGGGTGTTCGT
GGCCTGCGTATCGCACGTGGACAGGTTGATCTGCTGACTCGCCAGCTCGACGCAATTGCG
AAGGCCAGCGAAGAACTCGGCCGTGGCGACGACGCCCCAACCTGGGTTATGGCTCCAATG
GTGGCTACCGCTTATGAAGCAAAGTGGTTTGCTGACATGTGCCGTGAGCGTGGCCTAATC
GCCGGCGCCATGATCGAAGTTCCAGCAGCATCCCTGATGGCAGACAAGATCATGCCTCAC
CTGGACTTTGTTTCCATCGGTACCAACGACCTGACCCAGTACACCATGGCAGCGGACCGC
ATGTCTCCTGAGCTTGCCTACCTGACCGATCCTTGGCAGCCAGCAGTCCTGCGCCTGATC
AAGCACACCTGTGACGAAGGTGCTCGCTTTAACACCCCGGTCGGTGTTTGTGGTGAAGCA
GCAGCAGACCCACTGTTGGCAACTGTCCTCACCGGTCTTGGCGTGAACTCCCTGTCCGCA
GCATCCACTGCTCTCGCAGCAGTCGGTGCAAAGCTGTCAGAGGTCACCCTGGAAACCTGT
AAGAAGGCAGCAGAAGCAGCACTTGACGCTGAAGGTGCAACTGAAGCACGCGATGCTGTA
CGCGCAGTGATCGACGCAGCAGTC

>RXN01244-downstream
TAAACCACTGTTGAGCTAAAAAG

>RXN01299-upstream
CGACTGCGGCGTCTCTTCCTGGCACTACCATTCCTCGTCCTGACCAACTCGCCACAGCTG
GTGCAACGGTCACCCAAGTCAAAGGATTGAAAGAATCAGC

>RXN01299
ATGAATAGCGTAAATAATTCCTCGCTTGTCCGGCTGGATGTCGATTTCGGCGACTCCACC
ACGGATGTCATCAACAACCTTGCCACTGTTATTTTCGACGCTGGCCGAGCTTCCTCCGCC
GACGCCCTTGCCAAAGACGCGCTGGATCGTGAAGCAAAGTCCGGCACCGGCGTTCCTGGT
CAAGTTGCTATCCCCCACTGCCGTTCCGAAGCCGTATCTGTCCCTACCTTGGGCTTTGCT
CGCCTGAGCAAGGGTGTGGACTTCAGCGGACCTGATGGCGATGCCAACTTGGTGTTCCTC
ATTGCAGCACCTGCTGGCGGCGGCAAAGAGCACCTGAAGATCCTGTCCAAGCTTGCTCGC
TCCTTGGTGAAGAAGGATTTCATCAAGGCTCTGCAGGAAGCCACCACCGAGCAGGAAATC
GTCGACGTTGTCGATGCCGTGCTCAACCCAGCACCAAAAACCACCGAGCCAGCTGCAGCT
CCGGCTGCGGCGGCGGTTGCTGAGAGTGGGGCGGCGTCGACAAGCGTTACTCGTATCGTG
GCAATCACCGCATGCCCAACCGGTATCGCACACACCTACATGGCTGCGGATTCCCTGACG
CAAAACGCGGAAGGCCGCGATGATGTGGAACTCGTTGTGGAGACTCAGGGCTCTTCCGCT
GTCACCCCAGTCGATCCGAAGATCATCGAAGCTGCCGACGCCGTCATCTTCGCCACCGAC
GTGGGAGTTAAAGACCGCGAGCGTTTCGCTGGCAAGCCAGTCATTGAATCCGGCGTCAAG
CGCGCGATCAATGAGCCAGCCAAGATGATCGACGAGGCCATCGCAGCCTCCAAGAACCCA
AACGCCCGCAAGGTTTCCGGTTCCGGTGTCGCGGCATCTGCTGAAACCACCGGCGAGAAG

CTCGGCTGGGGCAAGCGCATCCAGCAGGCAGTCATGACCGGCGTGTCCTACATGGTTCCA
TTCGTAGCTGCCGGCGGCCTCCTGTTGGCTCTCGGCTTCGCATTCGGTGGATACGACATG
GCGAACGGCTGGCAAGCAATCGCCACCCAGTTCTCTCTGACCAACCTGCCAGGCAACACC
GTCGATGTTGACGGCGTGGCCATGACCTTCGAGCGTTCAGGCTTCCTGTTGTACTTCGGC
GCAGTCCTGTTCGCCACCGGCCAAGCAGCCATGGGCTTCATCGTGGCAGCCCTGTCTGGC
TACACCGCATACGCACTTGCTGGACGCCCAGGCATCGCGCCGGGCTTCGTCGGTGGCGCC
ATCTCCGTCACCATCGGCGCTGGCTTCATTGGTGGTCTGGTTACCGGTATCTTGGCTGGT
CTCATTGCCCTGTGGATTGGCTCCTGGAAGGTGCCACGCGTGGTGCAGTCACTGATGCCT
GTGGTCATCATCCCGCTACTTACCTCAGTGGTTGTTGGTCTCGTCATGTACCTCCTGCTG
GGTCGCCCACTCGCATCCATCATGACTGGTTTGCAGGACTGGCTATCGTCAATGTCCGGA
AGCTCCGCCATCTTGCTGGGTATCATCTTGGGCCTCATGATGTGTTTCGACCTCGGCGGA
CCAGTAAACAAGGCAGCCTACCTCTTTGGTACCGCAGGCCTGTCTACCGGCGACCAAGCT
TCCATGGAAATCATGGCCGCGATCATGGCAGCTGGCATGGTCCCACCAATCGCGTTGTCC
ATTGCTACCCTGCTGCGCAAGAAGCTGTTCACCCCAGCAGAGCAAGAAAACGGCAAGTCT
TCCTGGCTGCTTGGCCTGGCATTCGTCTCCGAAGGTGCCATCCCATTCGCCGCAGCTGAC
CCATTCCGTGTGATCCCAGCAATGATGGCTGGCGGTGCAACCACTGGTGCAATCTCCATG
GCACTGGGCGTCGGCTCTCGGGCTCCACACGGCGGTATCTTCGTGGTCTGGGCAATCGAA
CCATGGTGGGGCTGGCTCATCGCACTTGCAGCAGGCACCATCGTGTCCACCATCGTTGTC
ATCGCACTGAAGCAGTTCTGGCCAAACAAGGCCGTCGCTGCAGAAGTCGCGAAGCAAGAA
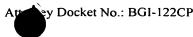GCACAACAAGCAGCTGTAAACGCA

>RXN01299-downstream
TAATCGGACCTTGACCCGATGTC

>RXN01943-upstream
CCGATTCTTTTTCGGCCCAATTCGTAACGGCGATCCTCTTAAGTGGACAAGAAAGTCTCT
TGCCCGCGGGAGACAGACCCTACGTTTAGAAAGGTTTGAC

>RXN01943
ATGGCGTCCAAACTGACGACGACATCGCAACATATTCTGGAAAACCTTGGTGGACCAGAC
AATATTACTTCGATGACTCACTGTGCGACTCGCCTTCGCTTCCAAGTGAAGGATCAATCC
ATTGTTGATCAACAAGAAATTGACTCCGACCCATCAGTTCTTGGCGTAGTACCCCAAGGA
TCCACCGGTATGCAGGTGGTGATGGGTGGATCTGTTGCAAACTATTACCAAGAAATCCTC
AAACTTGATGGAATGAAGCACTTCGCCGACGGTGAAGCTACAGAGAGTTCATCCAAGAAG
GAATACGGCGGAGTCCGTGGCAAGTACTCGTGGATTGACTACGCCTTCGAGTTCTTGTCT
GATACTTTCCGACCAATCCTGTGGGCCCTGCTTGGTGCCTCACTGATTATTACCTTGTTG
GTTCTTGCGGATACTTTCGGTTTGCAAGACTTCCGCGCTCCAATGGATGAGCAGCCTGAT
ACTTATGTATTCCTGCACTCCATGTGGCGCTCGGTCTTCTACTTCCTGCCAATTATGGTT
GGTGCCACCGCAGCTCGAAAGCTCGGCGCAAACGAGTGGATTGGTGCAGCTATTCCAGCC
GCACTTCTTACTCCAGAATTCTTGGCACTGGGTTCTGCCGGCGATACCGTCACAGTCTTT
GGCCTGCCAATGGTTCTGAATGACTACTCCGGACAGGTATTCCCACCGCTGATTGCAGCA
ATTGGTCTGTACTGGGTGGAAAAGGGACTGAAGAAGATCATCCCTGAAGCAGTCCAAATG
GTGTTCGTCCCATTCTTCTCCCTGCTGATTATGATCCCAGCGACCGCATTCCTGCTTGGA
CCTTTCGGCATCGGTGTTGGTAACGGAATTTCCAACCTGCTTGAAGCGATTAACAACTTC
AGCCCATTTATTCTTTCCATCGTTATCCCATTGCTCTACCCATTCTTGGTTCCACTTGGA
TTGCACTGGCCACTAAACGCCATCATGATCCAGAACATCAACACCCTGGGTTACGACTTC
ATTCAGGGACCAATGGGTGCCTGGAACTTCGCCTGCTTCGGCCTGGTCACCGGCGTGTTC
TTGCTCTCCATTAAGGAACGAAACAAGGCCATGCGTCAGGTTTCCCTGGGTGGCATGTTG
GCTGGTTTGCTCGGCGGCATTTCCGAGCCTTCCCTCTACGGTGTTCTGCTCCGATTCAAG
AAGACCTACTTCCGCCTCCTGCCGGGTTGTTTGGCAGGCGGTATCGTGATGGGCATCTTC
GACATCAAGGCGTACGCTTTCGTGTTCACCTCCTTGCTTACCATCCCAGCAATGGACCCA
TGGTTGGGCTACACCATTGGTATCGCAGTTGCATTCTTCGTTTCCATGTTCCTTGTTCTC
GCACTGGACTACCGTTCCAACGAAGAGCGCGATGAGGCACGTGCAAAGGTTGCTGCTGAC
AAGCAGGCAGAAGAAGATCTGAAGGCAGAAGCTAATGCAACTCCTGCAGCTCCAGTAGCT
GCTGCAGGTGCGGGAGCCGGTGCAGGTGCAGGAGCCGCTGCTGGCGCTGCAACCGCCGTG
GCAGCTAAGCCGAAGCTGGCCGCTGGGGAAGTAGTGGACATTGTTTCCCCACTCGAAGGC
AAGGCAATTCCACTTTCTGAAGTACCTGACCCAATCTTTGCAGCAGGCAAGCTTGGACCA
GGCATTGCAATCCAACCAACTGGAAACACCGTTGTTGCTCCAGCAGACGCTACTGTCATC
CTTGTCCAGAAATCTGGACACGCAGTGGCATTGCGCTTAGATAGCGGAGTTGAAATCCTT
GTCCACGTTGGATTGGACACCGTGCAATTGGGCGGCGAAGGCTTCACCGTTCACGTTGAG
CGCAGGCAGCAAGTCAAGGCGGGGGATCCACTGATCACTTTTGACGCTGACTTCATTCGA

TCCAAGGATCTACCTTTGATCACCCCAGTTGTGGTGTCTAACGCCGCGAAATTCGGTGAA
ATTGAAGGTATTCCTGCAGATCAGGCAAATTCTTCCACGACTGTGATCAAGGTCAACGGC
AAGAACGAG

>RXN01943-downstream
TAACCTGGGATCCATGTTGCGCA

>RXN03002-upstream
GGAACTTCGAGGTGTCTTCGTGGGGCGTACGGAGATCTAGCAAGTGTGGCTTTATGTTTG
ACCCTATCCGAATCAACATGCAGTGAATTAACATCTACTT

>RXN03002
ATGTTTGTACTCAAAGATCTGCTAAAGGCAGAACGCATAGAACTCGACCGCACGGTCACC
GATTGGCGTGAAGGCATCCGCGCCGCAGGTGTACTCCTAGAAAAGACAAACAGCATTGAT
TCCGCCTACACCGATGCCATGATCGCCAGCGTGGAAGAAAAAGGCCCCTACATTGTGGTC
GCTCCAGGTTTCGCTTTCGCGCACGCCCGCCCCAGCAGAGCAGTCCGCGAGACCGCTATG
TCGTGGGTGCGCCTGGCCTCCCCTGTTTCCTTCGGTCACAGTAAGAATGATCCCCTCAAT
CTCATCGTTGCTCTCGCTGCCAAAGATGCCACCGCACATACCCAAGCGATGGCGGCATTG
GCTAAAGCTTTAGGAAAATACCGAAAGGATCTCGACGAGGCACAAAGT

RXS00315 - upstream
CTCATGGCATCTGCGCCGTTCGCGTTCTTGCCAGTGTTGGTTGGTTTCACCGCAACCAAGCGTTTCGGC
GGCAATGAGTTCCTGGGCGCCGCGTATTGGT

RXS00315
ATGGCGATGGTGTTCCCGAGCTTGGTGAACGGCTACGACGTGGCCGCCACCATGGCTGCGGGCGAAATG
CCAATGTGGTCCCTGTTTGGTTTAGATGTTGCCCAAGCCGGTTACCAGGGCACCGTGCTTCCTGTGCTG
GTGGTTTCTTGGATTCTGGCAACGATCGAGAAGTTCCTGCACAAGCGACTCAAGGGCACTGCAGACTTC
CTGATCACTCCAGTGCTGACGTTGCTGCTCACCGGATTCCTTACATTCATCGCCATTGGCCCAGCAATG
CGCTGGGTGGGCGATGTGCTGGCACACGGTCTACAGGGACTTTATGATTTCGGTGGTCCAGTCGGCGGT
CTGCTCTTCGGTCTGGTCTACTCACCAATCGTCATCACTGGTCTGCACCAGTCCTTCCCGCCAATTGAG
CTGGAGCTGTTTAACCAGGGTGGATCCTTCATCTTCGCAACGGCATCTATGGCTAATATCGCCCAGGGT
GCGGCATGTTTGGCAGTGTTCTTCCTGGCGAAGAGTGAAAAGCTCAAGGGCCTTGCAGGTGCTTCAGGT
GTCTCCGCTGTTCTTGGTATTACGGAGCCTGCGATCTTCGGTGTGAACCTTCGCCTGCGCTGGCCGTTC
TTCATCGGTATCGGTACCGCAGCTATCGGTGGCGCTTTGATTGCACTCTTTAATATCAAGGCAGTTGCG
TTGGGCGCTGCAGGTTTCTTGGGTGTTGTTTCTATTGATGCTCCAGATATGGTCATGTTCTTGGTGTGT
GCAGTTGTTACCTTCTTCATCGCATTCGGCGCAGCGATTGCTTATGGCCTTTACTTGGTTCGCCGCAAC
GGCAGCATTGATCCAGATGCAACCGCTGCTCCAGTGCCTGCAGGAACGACCAAAGCCGAAGCAGAAGCA
CCCGCAGAATTTTCAAACGATTCCACCATCATCCAGGCACCTTTGACCGGTGAAGCTATTGCACTGAGC
AGCGTCAGCGATGCCATGTTTGCCAGCGGAAAGCTTGGCTCGGGCGTTGCCATCGTCCCAACCAAGGGG
CAGTTAGTTTCTCCGGTGAGTGGAAAGATTGTGGTGGCATTCCCATCTGGCCATGCTTTCGCAGTTCGC
ACCAAGGCTGAGGATGGTTCCAATGTGGATATCTTGATGCACATTGGTTTCGACACAGTAAACCTCAAC
GGCACGCACTTTAACCCGCTGAAGAAGCAGGGCGATGAAGTCAAAGCAGGGGAGCTGCTGTGTGAATTC
GATATTGATGCCATTAAGGCTGCAGGTTATGAGGTAACCACGCCGATTGTTGTTTCGAATTACAAGAAA
ACCGGACCTGTAAACACTTACGGTTTGGGCGAAATTGAAGCGGGAGCCAACCTGCTCAACGTCGCAAAG
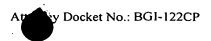AAAGAAGCGGTGCCAGCAACACCA

RXS00315 - downstream
TAAGTTGAAACCTTGAGTGTTCG

RXC00953 - upstream
CTTGCATTCCCCA

RXC00953 -
ATGGCGCCACCAACGGTAGGCAACTACATCATGCAGTCCTTCACTCAAGGTCTGCAGTTCGGCGTTGCA
GTTGCCGTGATTCTCTTTGGTGTCCGCACCATTCTTGGTGAACTGGTCCCCGCATTCCAAGGTATTGCT
GCGAAGGTTGTTCCCGGAGCTATCCCCGCATTGGATGCACCGATCGTGTTCCCCTACGCGCAGAACGCC
GTTCTCATTGGTTTCTTGTCTTCCTTCGTCGGTGGCTTGGTTGGCCTGACTGTTCTTGCATCGTGGCTG
AACCCAGCTTTTGGTGTCGCGTTGATTCTGCCTGGTTTGGTCCCCCACTTCTTCACTGGTGGCGCGGCG
GGCGTTTACGGTAATGCCACGGGTGGTCGTCGAGGAGCAGTATTTGGCGCCTTTGCCAACGGTCTTCTG

ATTACCTTCCTCCCTGCTTTCCTGCTTGGTGTGCTTGGTTCCTTCGGGTCAGAGAACACCACTTTCGGT
GATGCGGACTTTGGTTGGTTCGGAATCGTTGTTGGTTCTGCAGCCAAGGTGGAAGGTGCTGGCGGGCTC
ATCTTGTTGCTCATCATCGCAGCGGTTCTTCTGGGTGGCGCGATGGTCTTCCAGAAGCGCGTCGTGAAT
GGGCACTGGGATCCAGCTCCCAACCGTGAGCGCGTGGAGAAGGCGGAAGCTGATGCCACTCCAACGGCT
GGGGCTCGGACCTACCCTAAGATTGCTCCTCCGGCGGGCGCTCCTACCCCACCGGCTCGAAGC

RXC00953 - downstream
TAAGATCTCCAAAACCCTGAGAT

RXC03001 - upstream
CCCGGTTCACGTGATCAATGACTTCACGAGCACCGATGAAATCGATGCTGCGCTTCGTGAACGCTACGA
CATCTAACTACTTTAAAAGGACGAAAATATT

RXC03001 -
ATGGACTGGTTAACCATTCCTCTTTTCCTCGTTAATGAAATCCTTGCGGTTCCGGCTTTCCTCATCGGT
ATCATCACCGCCGTGGGATTGGGTGCCATGGGGCGTTCCGTCGGTCAGGTTATCGGTGGAGCAATCAAA
GCAACGTTGGGCTTTTTGCTCATTGGTGCGGGTGCCACGTTGGTCACTGCCTCCCTGGAGCCACTGGGT
GCGATGATCATGGGTGCCACAGGCATGCGTGGTGTTGTCCCAACGAATGAAGCCATCGCCGGAATCGCA
CAGGCTGAATACGGCGCGCAGGTGGCGTGGCTGATGATTCTGGGCTTCGCCATCTCTTTGGTGTTGGCT
CGTTTCACCAACCTGCGTTATGTCTTGCTCAACGGACACCACGTGCTGTTGATGTGCACCATGCTCACC
ATGGTCTTGGCCACCGGAAGAGTTGATGCGTGGATCTTC